

C-2-a. Coastal Flats / Bottom Land Benchmark System Worksheet

1	STATE	Hawaii
2	FIELD OFFICE	Lihue, Aiea, Hoolehua and Waimea
3	MLRA	163
4	COMMON RESOURCE AREA (CRA)	Coastal Flats/Bottom Land
5	RESOURCE INTERPRETATIONS	<i>see Section II FOTG for interpretations</i>
5.1	SOIL	Kauai – Hanalei – Kolokolo – Pakala association Jaucas - Mokuleia association Kekaha – Nohili association Oahu – Kaena – Waialua association Lualualei – Fill land – Ewa association Molokai - Jaucas-Mala-Pulehu association Hawaii – Mixed Alluvial Land
5.2	WATER	Not Available
5.3	AIR	Not Available
5.4	PLANT	Not Available
5.5	ANIMAL	Not Available
5.6	HUMAN	Not Available
6	HYDROLOGIC UNIT	20010000 / 20050000 / 20060000 / 20070000
7	SYSTEM TEMPLATE LABEL	CFA00
8	SYSTEM NAME	Coastal Flats/Bottom Land, Benchmark
9	PLANNING PHASE	Benchmark
10	PLANNING LEVEL	Not Applicable
11	NRCS LANDUSE	CROP / NPAS
12	EXISTING CONSERVATION PRACTICES	
	1. None	
	2.	
	3.	
	4.	
	5.	

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13	SYSTEM NARRATIVE	
	Representative Areas:	<p>Kauai - Mana to Kekaha, Haena, Wainiha, Hanalei, Anahola, Kealia, Kapaa, Wailua, Huleia, Hanapepe Valley, and Waimea Valley</p> <p>Oahu - Waianae, Mokuleia to Haleiwa, Kahuku to Kahana, Windward Coastal Areas and Kamilonui</p> <p>Molokai - Southern Coastal Areas</p> <p>Hawaii - Pololu Valley and Waipio Valley</p>
	Land Use:	<p>Cropland Sugarcane, truck crops and orchards. Wetland crops in periodically ponded or saturated soils.</p> <p>Naturalized Pasture Livestock grazing in periodically ponded or saturated soils.</p> <p>Confined Livestock Some confined livestock (cattle, swine and poultry) in Waianae.</p>
	Topography:	Mostly flat valley bottoms or shoreline areas. Steep in some areas.
	Soil:	<p>Kauai - <u>Hanalei – Kolokolo – Pakala association</u>: Deep, nearly level, poorly drained to well-drained soils that have dominantly moderately fine textured or medium-textured subsoil or underlying material; on bottom land.</p> <p><u>Jaucas – Mokuleia associaiton</u>: Deep, nearly level to moderately sloping, excessively drained and well-drained soils that have coarse-textured underlying material; on coastal plains.</p> <p><u>Kekaha – Nohili association</u>: Deep, nearly level, well drained and poorly drained soils that have a fine textured subsoil; on coastal plains.</p> <p>Oahu - <u>Kaena – Waialua association</u>: Deep, mainly nearly level and gently sloping, poorly drained to excessively drained soils that have a fine-textured to coarse-textured subsoil or underlying material; on coastal plains and talus slopes and in drainageways.</p> <p><u>Lualualei – Fill land – Ewa association</u>: Deep, nearly level to moderately sloping, well-drained soils that have a fine textured or moderately fine textured subsoil or underlying material, and areas of fill land; on coastal plains.</p> <p>Molokai - <u>Jaucas – Mala – Pulehu association</u>: Deep, nearly level and gently sloping, excessively drained and well-drained soils that have coarse-textured to fine-textured underlying material; on alluvial fans and drainageways.</p> <p>Hawaii - <u>Mixed Alluvial Land</u>: Recent stream deposition that varies widely in texture. It is on bottoms at the mouth of the valleys and is subject to frequent flooding. The surface is littered with stones and boulders.</p>
	Rainfall:	<p>Kauai - 5 – 40" per year, except Hanalei which is up to 100" per year.</p> <p>Oahu - 25 – 85" per year.</p> <p>Molokai - 10 – 50" per year.</p> <p>Hawaii - 80 – 100" per year.</p>
	Special Conditions:	Saturated soils in some areas. Flood prone. Windy.

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14	RESOURCE CONCERNS	MAGNITUDE/EFFECTS
	1. Soil / Erosion / Sheet & Rill Erosion	1. Soil loss exceeds acceptable tolerance level. Sheet & rill erosion estimated at _____ tons/acre/year.
	2. Soil / Erosion / Streambank Erosion	2. Stream banks and bottoms are not stabilized.
	3. Soil / Condition / Tilth, Crusting, Infiltration, Organic Matter	3. Soil contains little organic matter. Water infiltration is reduced.
	4. Soil / Condition / Soil Compaction	4. Soil is compacted and forms a plow pan within the root zone of the crop.
	5. Soil / Condition / Excess Chemicals in Soil	5. Pesticide residue buildup found in soil.
	6. Water / Quantity / Runoff/Flooding	6. Floodwater and ponding cause damage to cropland and residential areas.
	7. Water / Quantity / Soil Saturation	7. Water table is near surface of the soil.
	8. Water / Quantity / Irrigation Water Management	8. Timing and control of irrigation water are inefficient.
	9. Water / Quality / Pesticides in Groundwater	9. Pesticides have been detected by DOH in some groundwater wells.
	10. Water / Quality / Nutrients & Organics in Surface Water	10. According to DOH reports, state water quality standards have been exceeded for nutrients in some coastal waters.
	11. Water / Quality / Suspended Sediment & Turbidity in Surface Water	11. According to DOH reports, state water quality standards have been exceeded for turbidity in some coastal waters.
	12. Animal / Habitat / Threatened & Endangered Species	12. Some areas on the property are habitat for threatened and endangered animals.